

DETAIL SPECIFICATION SHEET

HOSE, RUBBER, HYDRAULIC PRESSURE-TYPE, TYPE 100R2
DOUBLE-WIRE-BRAID REINFORCEMENT HOSE

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-52471.

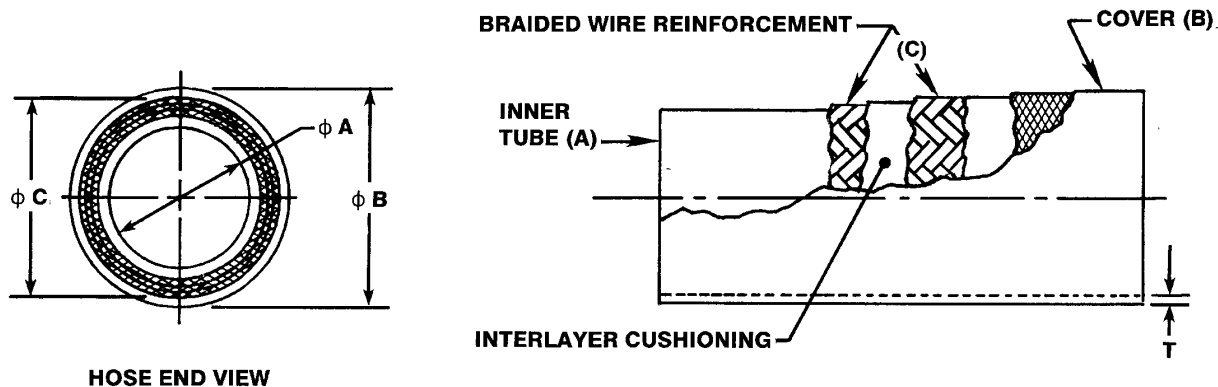


FIGURE 1. Hose: type 100R2, double wire braid reinforcement.

TABLE I. Dimensions, type 100R2 hose.

Hose size (inch)	Dash number	A Inner tube		
		Inside diameter inch	Inside diameter tolerance inch	
1/4	-4	0.250	+0.023	-0.008
3/8	-6	0.375	+0.023	-0.008
1/2	-8	0.500	+0.031	-0.015
3/4	-12	0.750	+0.031	-0.015
1	-16	1.000	+0.040	-0.015
1-1/4	-20	1.250	+0.047	-0.015
1-1/2	-24	1.500	+0.047	-0.015
2	-32	2.000	+0.047	-0.015

TABLE II. Cover dimensions, type 100R2 hose.

Hose size (inch)	Dash number	B Cover		B Cover alternate
		Maximum outside diameter inch	Minimum outside diameter inch	Maximum outside diameter inch
1/4	-4	0.719	0.656	0.619
3/8	-6	0.875	0.812	0.777
1/2	-8	1.000	0.938	0.908
3/4	-12	1.281	1.219	1.190
1	-16	1.609	1.516	1.531
1-1/4	-20	2.062	1.938	1.953
1-1/2	-24	2.312	2.188	2.203
2	-32	2.812	2.688	2.703

TABLE III. Wire reinforcement dimensions, type 100R2 hose.

Hose size (inch)	Dash number	C Wire reinforcement		T Alternate cover thickness range	
		Maximum	Minimum	Maximum	Minimum
		outside diameter inch	outside diameter inch	inch	inch
1/4	-4	0.523	0.477	0.060	0.031
3/8	-6	0.681	0.633	0.060	0.031
1/2	-8	0.812	0.750	0.060	0.031
3/4	-12	1.094	1.031	0.060	0.031
1	-16	1.406	1.344	0.085	0.042
1-1/4	-20	1.797	1.703	0.100	0.050
1-1/2	-24	2.047	1.953	0.100	0.050
2	-32	2.547	2.453	0.100	0.050

TABLE IV. Hose operating pressure.

Hose size (inch)	Dash number	Operating pressure psi MAX
1/4	-4	5000
3/8	-6	4000
1/2	-8	3500
3/4	-12	2250
1	-16	2000
1-1/4	-20	1625
1-1/2	-24	1250
2	-32	1125

TABLE V. Concentricity.

Hose size (inch)	Concentricity (FIM) between	
	Tube inside diameter (A) and cover outside diameter (B)	Tube inside diameter (A) and reinforcement outside diameter (C)
	inch	inch
1/4	0.030	0.021
3/8, 1/2, 3/4	0.040	0.028
1, 1-1/4, 1-1/2, 2	0.050	0.035

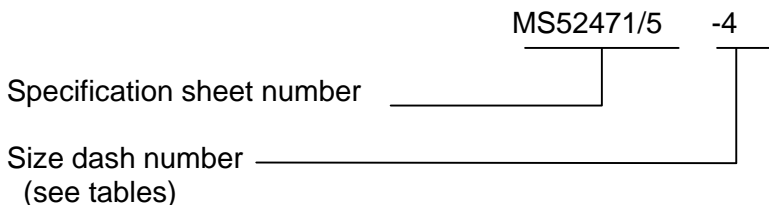
REQUIREMENTS:

1. The hose shall be in accordance with figure 1 and tables I through V.
2. Inside and outside diameters are measured at least 2 inches from the end.
3. This hose must be listed on QPL-52471.

NOTES:

1. Part number: The military part number corresponds to the size of hoses covered by this specification sheet. The specification sheet number and the size dash number form the military part number.

Example of a military part number: MS527471/5-4



CONCLUDING MATERIAL

Custodian:
Army - AT
Navy - SH
Air Force - 99

Preparing activity:
DLA - CC

(Project 4720-0191-05)

Review activities:
Army - AR, GL